TP-LINK®

User Guide

Archer CR700

AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router



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http://www.tp-link.com

FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1)This device may not cause interference, and

(2)This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux norms CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1)cet appareil ne doit pas provoquer d'interférences et

(2)cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

Industry Canada Statement

Complies with the Canadian ICES-003 Class B specifications.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice& BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、 加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行; 經發現有干擾現象時, 應立即 停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信規定作業之無線電信。低功率射 頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

減少電磁波影響,請妥適使用。

安全諮詢及注意事項

- ●請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- ●清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- ●注意防潮,請勿將水或其他液體潑灑到本產品上。 □
- ●插槽與開口供通風使用,以確保本產品的操作可靠並防止過熱,請勿堵塞或覆蓋開口。
- ●請勿將本產品置放於靠近熱源的地方。除非有正常的通風,否則不可放在密閉位置中。
- ●請不要私自打開機殼,不要嘗試自行維修本產品,請由授權的專業人士進行此項工作。

Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

EHC

Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.

• Avoid water and wet locations.

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	IE	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA	US		

This product can be used in the following countries:

DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router

Model No.: Archer CR700

Trademark: TP-LINK

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1999/5/EC, Directives 2004/108/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents

EN 300 328 V1.8.1 EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1 EN 55022: 2010 + AC: 2011 EN 55024: 2010 EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 EN 61000-3-3: 2013 EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 EN 50385: 2002 EN 301 893 V1.7.1

The product carries the CE Mark:



Person responsible for making this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2014

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Package Contents

The following contents should be found in your package:

- > One Archer CR700 AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router
- One Power Adapter for Archer CR700 AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router
- > Quick Installation Guide
- > One RJ45 cable

Solution Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact your distributor.

Chapter 1. Product Overview

Thank you for choosing the Archer CR700 AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router.

1.1 Overview of the Modem Router

The Archer CR700 AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router integrates DOCSIS 3.0 modem, NAT router, 4-port switch and wireless access point in one device provides a one-stop networking solution.

The modem router provides up to 450Mbps (2.4GHz) + 1300Mbps (5GHz) wireless connection with other wireless clients. The incredible speed makes it ideal for handling multiple data streams at the same time, which ensures your network stable and smooth. The performance of this 802.11ac wireless modem router will give you the unexpected networking experience at speed much faster than 802.11n. It is also compatible with all IEEE 802.11a, IEEE 802.11b, IEEE 802.11g and IEEE 802.11n, products.

With multiple protection measures, including SSID broadcast control and wireless LAN 64/128 WEP encryption, Wi-Fi protected Access (WPA2-PSK, WPA-PSK), as well as advanced Firewall protections, the Archer CR700 AC1750 Wireless Dual Band Gigabit DOCSIS 3.0 Cable Modem Router provides complete data privacy.

The modem router provides flexible access control, so that parents or network administrators can establish restricted access policies for children or staffs. It also supports Virtual Server and DMZ host for Port Triggering, and then the network administrators can manage and monitor the network in real time with the remote management function.

Since the modem router is compatible with virtually all the major operating systems, it is very easy to manage. Detailed instructions are provided step by step in this user guide. Before installing the modem router, please look through this guide to know all the modem router's functions.

1.2 Main Features

- Supports 802.11ac The next generation of Wi-Fi
- Dual band for combined wireless speeds of up to 1.75Gbps at 2.4GHz and 5GHz band concurrently
- > DOCSIS 3.0, Compatible with DOCSIS 2.0/1.1/1.0
- > 16 Downstream Channel bonding, Up to 680Mbps Downstream for DOCSIS and 900Mbps
- > 4 Upstream Channel bonding, Up to 120Mbps Upstream
- > Full Band Capture windows Utilize any channels in the downstream spectrum.
- Dual-core processor –for wonderful performance with Internet, Wi-Fi, Ethernet and USB devices
- > 6 internal antennas provide maximum Omni-directional wireless coverage and reliability
- > Full gigabit ports ensure ultra fast data transfer speeds
- Dual USB Ports easily share printers, files or media with your friends or family locally or over the Internet
- > Guest Network Access provides secure Wi-Fi access for guests sharing your home or office

network

- > IPv6 supported, meeting the demands for the next generation of Internet
- > Wi-Fi On/Off Button allows users to turn their wireless radio on or off
- > Easy one-touch WPA wireless security encryption with the WPS button
- WPA-PSK/WPA2-PSK encryptions provide user networks with active defense against security threats
- Parental Controls allow parents or administrators to establish restricted access policies for children or staff

1.3 Panel Layout

1.3.1 The Front Panel



Figure 1-1

The modem router's LEDs are located on the side panel (View from top to bottom). They indicate the device's working status. For details, please refer to LED Explanation.

LED Explanation:

Name	Status	Indication
U)	On	The modem router is powered on.

(Power)	0#	The modem router is off. Please ensure that the power adapter is		
	Oli	connected correctly.		
	Orange	The modem router is synchronized to multiple downstream		
	Ordinge	channels.		
<u>ل</u>	W/hite	The modem router is synchronized to a single downstream		
(Downstream)	VVIIIC	channel.		
	Flash	Scanning for a downstream channel connection.		
	Off	Failed to search non-bounded downstream channel.		
	Orange	The modem router is synchronized to multiple upstream		
-53	Crange	channels.		
ت (Linetroom)	White	The modem router is synchronized to a single upstream channel.		
(Upstream)	Flash	Scanning for an upstream channel connection.		
	Off	Failed to search non-bounded upstream channel.		
	On	The network is available with a successful Internet connection.		
(Unline)	Off	There is no successful Internet connection.		
ليرا	On	There is a device connected to this LAN port.		
(LAN)	Off	There is no device connected to this LAN port.		
	On	Wireless is enabled. The modem router is working on 2.4GHz/5		
<u>ک</u>	On	GHz radio band.		
(Wireless)	Off	Wireless is disabled.		
	On	A wireless device has been successfully added to the network by		
	Un	WPS function.		
(1,4)		WPS handshaking is in process and will continue for about 2		
29V	Flash	minutes. Please press the WPS button on other wireless devices		
(WPS)		that you want to add to the network while the LED is flashing.		
	Off	A wireless device has failed to be added to the network by WPS		
	Oli	function.		
O (USB on the	Off	No storage device or printer is plugged into the USB port.		
back panel)	On	A storage device or printer has connected to the USB port.		

1.3.2 The Back Panel



Figure 1-2

> **RESET**: There are two ways to reset the modem router's factory defaults.

Method one: With the modem router powered on, use a pin to press and hold the Reset button for at least 8-10 seconds. And the modem router will reboot to its factory default settings.

Method two: Restore the default setting from "<u>5.9.6 Backup & Restore</u>" of the modem router's Web-based Management.

- > **WPS**: The switch for the WPS function.
- **WiFi ON/OFF**: The switch for the WiFi function. Press it to enable/disable the WiFi function.
- **USB2, USB1**: The USB port connects to a USB storage device or a USB printer.
- LAN4, LAN3, LAN2, LAN1: Through these ports, you can connect the modem router to your PC or the other Ethernet network devices.
- > Cable:
- > **DC**: The power plug where you will connect the power adapter.
- > **Power ON/OFF**: The switch for the power.

Chapter 2. Connecting the Modem Router

2.1 System Requirements

- > Broadband Internet Access Service (DSL/Cable/Ethernet).
- > PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors.
- > TCP/IP protocol on each PC.
- > Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

2.2 Installation Environment Requirements

- > The Product should not be located where it will be exposed to moisture or excessive heat.
- Place the Router in a location where it can be connected to the various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- > The Router can be placed on a shelf or desktop.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.

2.3 Connecting the Modem Router

Before installing the device, please make sure your broadband cable service provided by your ISP is available. If there is any problem, please contact your ISP. Before cable connection, cut off the power supply and keep your hands dry. You can follow the steps below to install it.

- **Step 1:** Connect the coaxial cable to the modem router.
- Step 2: Power on your modem router.
- **Step 3:** Connect your computer to the router with an Ethernet cable or wirelessly. You can connect wirelessly by using the default SSID (Wireless Network Name) and password printed on the product label at the bottom of the Archer CR700.
- Step 4: Wait for two minutes. Make sure the following LEDs are on as indicated below.
- Power: Solid
- Downstream: Solid
- > Upstream: Solid
- > **Online**: Solid or Flashing
- Wireless: Solid
- **Step 5:** Contact your Internet Service Provider (ISP) to activate the Archer CR700 with the information below.



Step 6: Open a web browser and type in a valid URL, for example, http://www.tp-link.com, to test the Internet connection.

Note:

If the Internet is not accessible, please contact your ISP to make sure that the modem router is activated successfully.

For advanced configuration, go to the web management page at http://tplinkmodem.net or 192.168.1.1, and use admin (all lowercase) for both user name and password to log in.



Figure 2-1

The cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

Chapter 3. Configure the Modem Router

With a Web-based management page, it is easy to configure and manage the Archer CR700 AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router. The Web-based management page can be used on any Windows, Macintosh or UNIX OS with a Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

To access the configuration utility, open a web-browser and type the default address <u>http://tplinkmodem.net/</u> or <u>192.168.1.1</u> in the address field of the browser.

ł	Address	http://tplinkmodem.net
---	---------	------------------------

Figure 3-1

After a moment, a login window will appear, similar to the Figure 3-2. Enter **admin** for the Username and Password, both in lower case letters. Then click the **Login** button or press the Enter key.

\square	admin	
P	•••••	
	Login	

Figure 3-2

After your successful login, you will see the screen as shown in Figure 3-3.

TP-LINK Archer CR700	Basic Advanced	O *
Network Map		
Internet		
Wireless	Internet	Router
Guest Network		
USB Settings		
An Parental Control	Wireless Clients Wired Clients	Printer USB Disk



The detailed explanations for each Web page's key function are listed below.

Chapter 4. Basic

4.1 Network Map

Network Map provides a dashboard that lets you see the status of your Internet connection and network at a glance. You can click any of the eight sections of the dashboard to view the detail information. All the information is read-only.

TP-LINK Archer CR700	Basic Advanced	Co *
Network Map		
Internet		
Wireless	Internet	Router
Guest Network		
🖉 USB Settings		
<u>A</u> Parental Control	Wireless Clients Wired Clients	Printer USB Disk

Figure 4-1

- > Internet View Check the ISP settings of your modem router.
- > **Router -** View Check the Wireless and Guest Network settings.
- > Wireless Clients Click to view the wireless devices connected to your network.
- > Wired Clients Click to view the wired devices connected to your network.
- > **Printer -** Click to view the information of the printer connected to your network.
- USB Disk Click to view the information of the USB storage device connected to your network.

4.2 Internet

Choose "**Basic** \rightarrow **Internet**", and you can configure the basic settings of the ISP Configuration and the Internet on this page.

There are four different connection types, Dynamic IP, Static IP, L2TP(Dynamic IP) and L2TP(Static). You can select the corresponding type according to your needs.

Connection Settings	3		
Connection Type:	Dynamic IP	•	
			Apply

Figure 4-2

1) Dynamic IP

Choose **Dynamic IP** in the drop-down list, the modem router will be able to obtain IP network information dynamically from a DHCP server provided by your ISP.

Connection Settings			
Connection Type:	Dynamic IP	•	
			Apply

Figure 4-3

Click the **Apply** button to save the settings.

2) Static IP

Choose **Static IP** in the drop-down list if your ISP provides static IP information to you. You should set static IP address, Subnet mask, and gateway address in the screen below.

Connection Settings		
Connection Type:	Static IP	•
IP Address:		
Subnet Mask:		
Default GateWay:		
Primary DNS:		
Secondaray DNS:		(Optional)
		Apply

Figure 4-4

- > IP Address Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- Default Gateway Enter the gateway IP address in dotted-decimal notation provided by your ISP.

Primary DNS/ Secondary DNS - Here you can set DNS Server (at least one) manually. The Route will use this DNS Server for priority.

Click the **Apply** button to save the settings.

3) L2TP(Dynamic IP)

Choose **L2TP(Dynamic IP)** in the drop-down list if your ISP provides L2TP(Dynamic IP) information to you. You should set User name, Password and Server IP Address/Name in the screen below.

Connection Settings			
Connection Type:	L2TP(Dynamic IP)	•	
User name:			
Password:			
Server IP Address/Name:			
		Apply	

Figure 4-5

- Username/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.
- Server IP Address/Name Enter the server IP address or domain name provided by your ISP. If you have difficulty with this process, please contact your ISP.

Click the **Apply** button to save the settings.

4) L2TP(Static)

Choose **L2TP(Static)** in the drop-down list if your ISP provides L2TP(Static) information to you. You should set User name, Password, Server IP Address/Name, IP Address, Subnet Mask and Default Gateway in the screen below.

Connection Settings		
Connection Type:	L2TP(Static)	•
User name:		
Password:		
Server IP Address/Name:		
IP Address:		
Subnet Mask:		
Default GateWay:		

Figure 4-6

- Username/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.
- Server IP Address/Name Enter the server IP address or domain name provided by your ISP. If you have difficulty with this process, please contact your ISP.
- > IP Address Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- Default Gateway Enter the gateway IP address in dotted-decimal notation provided by your ISP.

Click the **Apply** button to save the settings.

4.3 Wireless

Choose menu "**Basic**" \rightarrow "Wireless", you can configure the basic settings for the wireless networks of 2.4GHz and 5GHz on this page.

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Wireless Settings		
2.4GHz:	🗹 Enable Wireless Radio	
Name(SSID):	TP-LINK_0000	Hide SSID
Password:	12345670	
5GHz:	🗹 Enable Wireless Radio	
Name(SSID):	TP-LINK_0000_5GHz	Hide SSID
Password:	12345670	
		Save

Figure 4-7

- > Enable Wireless Radio Check the box to enable the Wireless Radio.
- Name (SSID) Create a name (up to 32 characters) for your 2.4GHz/5GHz wireless network. The default SSID is set to be TP-LINK_XXXX for the wireless network of 2.4GHz and TP-LINK_XXXX_5G for the wireless network of 5GHz.
- Hide SSID If you want to hide the SSID of your wireless network from the Wi-Fi network, you should check the box.
- Password –You can enter ASCII characters between 8 and 63 characters or 8 to 64 Hexadecimal characters. The default password is the same with the default PIN code, which is labeled on the back of the modem router.

Click the **Save** button to save the settings.

4.4 Guest Network

Choose menu "**Basic** \rightarrow **Guest Network**", and you will see the screen as shown in Figure 4-8. This feature allows you to create a separate network for your guests without allowing them to access your main network and the computers connected to it.

Guest Network	
2.4GHz:	Enable Wireless Radio
Name(SSID):	TP-LINK_Guest_2.4GHz
Password:	12345670
	Allow guests to see each other
	Allow guests to access my local network
5GHz:	Enable Wireless Radio
Name(SSID):	TP-LINK_Guest_5GHz
Password:	12345670
	Allow guests to see each other
	☑ Allow guests to access my local network
	Save

Figure 4-8

> 2.4GHz - If Enable Wireless Radio is selected, please complete the following parameters.

2.4GHz:	Enable Wireless Radio	
Name(SSID):	TP-LINK_Guest_2.4GHz	🗌 Hide SSID
Password:	12345670	
	Allow guests to see each other	
	Allow guests to access my local	l network

Figure 4-9

- Name (SSID) Create a name for the guest network. When setting up a Guest network, it is strongly recommended to use a name that easily distinguishes it from your primary network. The default name is TP-LINK_Guest_2.4GHz. If you want to hide the guest network from the Wi-Fi network, check the Hide SSID.
- Password Create a password for the guest network. The password must have a minimum of 8 characters in length.
- Allow guests to see each other If Allow guests to see each other is selected, anyone who connects to the guest network can access each other.
- Allow guests to access my local network If Allow guests to access my local network is selected, anyone who connects to the guest network has access to your local network, not just Internet access.

> 5GHz - If Enable Wireless Radio is selected, please complete the following parameters.

5GHz:	🗌 Enable Wireless Radio	
Name(SSID):	TP-LINK_Guest_5GHz	Hide SSID
Password:	12345670	
	\blacksquare Allow guests to see each other	r.
	Allow guests to access my loca	l network

Figure 4-10

- Network Name(SSID) Create a name for the guest network. When setting up a Guest network, it is strongly recommended to use a name that easily distinguishes it from your primary network. The default name is TP-LINK_Guest_XXXX_5G. If you want to hide the guest network from the Wi-Fi network, check the Hide SSID.
- Security It's strongly recommended to select Set a password. If you do not want to use wireless security, choose None.
- Password Create a password for the guest network. The password must have a minimum of 8 characters in length.
- Allow guests to see each other If Allow guests to see each other is selected, anyone who connects to the guest network can access each other.
- Allow guests to access my local network If Allow guests to access my local network is selected, anyone who connects to the guest network has access to your local network, not just Internet access.

Click the **Save** button to save the settings.

4.5 USB Settings

There are three submenus under the USB Settings menu, **Folder Sharing** and **Print Server.** Click any of them, and you will be able to configure the corresponding function.

4.5.1 Folder Sharing

Choose menu "Basic \rightarrow USB Settings \rightarrow Folder Sharing", you can view the basic information about the connected USB mass storage, and configure Sharing Folders(Media file, Document files, Compress files and so on.)

JISK J	ettings				
Sca	in				
Generic	Flash Disk (4.0 GB	i)			😔 Safely Remove
ID	Volume	Capacity		Free Space	Enable
1	sda1	3.94629 GB		3.81739 GB	Ŷ
etwork	/Media Server Nam	e: TP-LINK			
letwork	:/Media Server Nam	e: TP-LINK			Cauc
letwork	:/Media Server Nam	e: TP-LINK			Save
letwork Sharin	;/Media Server Nam g Folders(Medi	a file, Document	files, Co	mpress files an	Save d so on.)
bharin	;/Media Server Nam g Folders(Medi	a file, Document	files, Co	mpress files an	Save d so on.)
letwork Sharin	s/Media Server Nam g Folders(Medi Sharing All:	a file, Document	files, Co	mpress files an	Save d so on.)
Sharin Sharin Snable S Snable A	(/Media Server Nam g Folders(Medi Sharing All: Authentication:	a file, Document	files, Co	mpress files an	Save d so on.) C Refrest
b arin nable s nable <i>f</i>	Media Server Nam g Folders(Medi Sharing All: Authentication: Shar	e Name	files, Co	ompress files an	Save d so on.) © Refrest Volume

Figure 4-11 Folder Sharing

Disk Settings:

- Scan Click the button to display the information of the USB storage device connected to the modem router.
- > Volume The volume name of the USB drive the users have access to.
- **Capacity -** The storage capacity of the USB driver.
- **Free Space -** The available capacity of the USB driver.
- > **Enable -** When the volume is shared, you can click the \bigcirc icon to stop sharing the volume; when volume is non-shared, you can click the \bigcirc icon to share the volume.

Click Safely Remove button to remove the USB storage device that is connected to USB port.

P Note:

Before removing the USB storage device, you should click " Safely Remove" to make sure that all your data have been saved completely. Removing device directly may cause your USB storage device crashed.

Sharing Settings:

Network/Media Server Name - Show the name of the network/media server. This is the name used to access the USB device connected to the modem router.

Sharing Folders(Media file, Document files, Compress files and so on.):

- Enable Sharing All The switch for sharing all the folders. If turn on the switch, the field will become green and all the folders in the USB drive will be shared.
- Enable Authentication If turn on this switch, the folder sharing is need authentication. The default setting is off.

To share the folders you specified, please follow the steps below.

1. Turn off the **Enable Sharing All** switch and the next screen will pop-up as shown in Figure 4-12.

Sha	Sharing Folders(Media file, Document files, Compress files and so on.)						
Enab	ole Sh	aring All:					_
						🔂 Add 🌔	🛢 Delete
	ID	Share Name	Folder Path	Media Sharing	Volume	Enable	Modify

Figure 4-12 Add or Modify Share Folder

2. Click the 😌 Add button and the next screen will pop-up as shown in Figure 4-13.



Figure 4-13 Add Share Folder

3. Select the volume desired to share from the **Volume** drop-down list. Then click the **Browse** button to select the folder path. You can create a share name, e.g. music.

Volume:	G: 🔻	
Folder Path:	G:/music	Browse
Share Name:		

- 4. Select the checkboxes in Figure 4-13.according to your needs.
 - > **Enable Authentication -** If this checkbox is selected, then the folder sharing is need authentication.
 - Write Access If this checkbox is selected, then the sharing folder is allowed write access.
 - > Enable Media Sharing Select this checkbox to enable media sharing.

Click **OK** to complete the settings.

4.5.2 Print Server

Choose menu "Basic→USB Settings→Print Server", you can enable or disable the print server.

Print Server				
Server S	itatus:			
Printer N	lame:	No Printer		
Note				
Step1:	Connect the USB pr	inter to the router's USB port with a USB printer cable.		
Step2:	Install the printer's driver on your computer.			
Step3:	Install the TP-LINK USB Printer Controller on your computer. Please run the resource CD or download the TP-LINK USB Printer Controller utility from www.tp-link.com.			

Figure 4-14 Print Server

4.6 Parental Control

Choose menu "**Basic→Parental Control**", and then you can configure the parental control. The Parental Control function can be used to control the internet activities of the child, limit the child to access certain websites and restrict the time of surfing.

Parental Control					
Enable Parental Control					
Devices Under Parent	al Control				
				🔂 Add 🧲	Delete
Device Name	MAC Address	Effective Time	Description	Enable	Modify
Content Restriction					
Content Restriction Mode Black List Mode White List Mode Add a new keyword					
anonymizer	•				
					Save

Figure 4-15 Parental Control Settings

Parental Control:

Enable Parental Control - The switch for the parental control. If turn on the switch, the field will become green

Devices Under Parental Control:

- > Add You can add a new device for the parental control by clicking this button.
- > Delete You can click the button to delete the selected entries.
- > **Device Name -**The name used for identifying a device.
- MAC Address This field displays the MAC address of the PC that is managing this modem router.
- Effective Time The time period allowed for the PC controlled to access the Internet. You can click the ⁽¹⁾ icon to configure the time period.
- Description Here displays the description about the parental control and this description is unique.
- > **Enable –** Click the \bigcirc icon to enable the function. If this function has taken effect, the icon will become \bigcirc .
- Modify Click the icon to edit the corresponding entry. If you want to delete this entry, you can click the icon.

To add a new entry, please follow the steps below.

1. Click the **C**Add button and the next screen will pop-up.

Device Name:		View Devices	
MAC Address:			
Internet Access Time:	Ø		
Description:			
	Enable this Entry		
		Cancel	ОК

Figure 4-16 Add Parental Control Entry

2. Click **View Device** button and the next screen will pop-up. You'd like to click the 🕒 icon to select a device.

				\otimes
ID	Device Name	IP Address	MAC Address	Operation
1	ARCHER_D20	192.168.1.22	00:00:00:00:00:00	0
2	2	2	2	Ð

Figure 4-17 select a device

- 3. Click () to create a new schedule. You'd like to click the Schedule in green below to go to the Advance Schedule Settings page and create the schedule you need. Then enter the **Description**.
- 4. Check the box **Enable this Entry** to enable this function.
- 5. Click **OK** to complete the settings.

Content Restriction:

- Content Restriction Mode Select the Black List Mode or White List Mode for this account.
- Black List Mode All webs entered within the Black List will be denied to access. Check the box to enable this mode. You'd like to click Add a new keyword button and input the net addresses which the child is denied to access.

Archer CR700 1	750 Wireless Dual Ba	nd DOCSIS 3.0 Cable	e Modem Router User Guide
Content Restriction			
Content Restriction Mode	Black List Mode	○ White List Mode	
Add a new keyword			
	•		Save

White List Mode - Only the web entered within the White List will be allowed. Check the box to enable this mode. You'd like to click ^① Add a new keyword button and input the net addresses which the child is allowed to access.

Content Restriction Mode	O Black List Mode	White List Mode	
🕀 Add a new domain nam	e		
	•		
			Save

Click **Save** to complete the settings.

Chapter 5. Advanced

5.1 Status

Choose menu "Advanced→Status", you can see the current status information about the modem router.

TP-LINK Archer CR700	E	asic	Adv	vanced	Comercial Constant Co
🐼 Status	Internet	1	IPv4 IPv6	🔊 Wireless 🗧	2.4GHz 5GHz
Operation Mode	MAC Address:	e8:94:f6:de:a	d:03	Network Name:	TP-LINK_2.4GHz_0000
•	IP Address:	N/A		Wireless Radio:	On
Wetwork	Subnet Mask:	N/A		Mode:	bgn-mixed
Wireless 2.4G	Default Gateway:	N/A		Channel Width:	Auto
	Primary DNS:	N/A		Channel:	Auto
Wireless 5G	Secondary DNS:	N/A		MAC Address:	00:10:18:A9:05:06
O NAT Forwarding	Connection Type:	Dynamic IP	< >		
USB Settings	_			_	
C cos occanigo	C LAN		IPv4 IPv6	Guest Netw	ork 🛜 2.4GHz 5GHz
An Parental Control	MAC Address:	e8:94:f6:de:a	d:05	Network Name:	TP-LINK_Guest_2.4GHz
🔒 Firewall	IP Address:	192.168.1.100		Wireless Radio:	Off
	Subnet Mask:	255.255.255.0		Hide SSID:	Off
🔅 System Tools	DHCP:	On		See each other:	on

Figure 5-1 Status

5.2 Operation Mode

Choose menu "Advanced→Operation Mode", and you will see the screen as shown in Figure 5-2.Select your desired mode and then click **Save**.

Operation Mode	
Please select an Operation Mode:	
Router Mode	
○ Bridge Mode	
	Save

Figure 5-2 Operation Mode

- Router Mode The device enables multi-users to share Internet via Ethernet WAN (EWAN) using its interchangeable LAN4/WAN port and share it wirelessly at 450Mbps wireless speeds over the crystal clear 5GHz band and 1300Mbps over the 2.4GHz band.
- Bridge Mode In this mode, the modem router can be configured to act as a bridging device between your LAN and your ISP. Bridges are devices that enable two or more networks to communicate as if they are two segments of the same physical LAN.

After you click the Save button, the modem router will reboot. Please wait.

5.3 Network



Figure 5-3 the Network menu

There are five submenus under the Network menu as shown in Figure 5-3: **WAN, LAN Settings**, **IPv6 LAN Settings**, **Dynamic DNS** and **Advanced Routing**. Click any of them, and you will be able to configure the corresponding function.

5.3.1 WAN

Choose "Advanced \rightarrow Network \rightarrow WAN", you can configure the IP parameters of the WAN on the screen below.
Archer CR700	1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router User Guide
--------------	--

Connection Status		
Connection Type:	DHCP	
IP Address:	,,	
MAC Address:	e8:94:f6:de:ad:03	
Duration:	D: H: M: S:	
Expires:	;;	
DisConnect ReConnect		
Disconnect		
Connection Settings		
Connection Type:	Dynamic IP 🔹	
Current used MAC Address:	e8:94:f6:de:ad:03	
Mac Clone:	Use Default MAC Address	
	○ Use Computer MAC Address	
	○ Use this MAC Address	

Figure 5-4

Connection Status:

- > **Connection Type –** Display the connection type for WAN.
- > **IP/MAC Address -** This field displays the current IP/MAC address of the Internet port.
- > **Duration –** Display the total connection time.
- Expires Display the expiration time of the DHCP servers leases an IP address to a new device.
- DisConnect Click the DisConnect button to release WAN lease, then the Note Dialog will appear. You can click the OK button to disconnect immediately.

(!)	You need to reboot your device to release WAN lease if the WAN	settings changed	. Are you sure?	×
		Cancel	ОК	

ReConnect –Click the ReConnect button to renew WAN lease, then the Note Dialog will appear. You can click the OK button to disconnect immediately.

				S
()	You need to reboot your device to renew WAN lease if the WAN	settings changed.	Are you sure?	
		Cancel	ОК	

Connection settings:

There are four different connection types, Dynamic IP, Static IP, L2TP(Dynamic IP) and L2TP(Static). You can select the corresponding type according to your needs.

Connection Settings		
Connection Type:	Dynamic IP	
Current used MAC Address:	e8:94:f6:de:ad:03	
Mac Clone:	Use Default MAC Address	
	○ Use Computer MAC Address	
	○ Use this MAC Address	
		Apply

Figure 5-5 Connection settings

1) Dynamic IP

Choose **Dynamic IP** in the drop-down list, the modem router will be able to obtain IP network information dynamically from a DHCP server provided by your ISP.

Connection Settings	
Connection Type:	Dynamic IP 🔻
Current used MAC Address:	e8:94:f6:de:ad:03
Mac Clone:	Use Default MAC Address
	O Use Computer MAC Address
	○ Use this MAC Address
	Apply

Figure 5-6 WAN - Dynamic IP

- Current used MAC Address This field displays the current MAC address of the Internet port.
- MAC Clone You can select one of below methods to change MAC address for this WAN Interface depend on your needs. If you select Use this MAC Address, you can enter the MAC Address you want to change.

Click the **Apply** button to save the settings.

2) Static IP

Choose **Static IP** in the drop-down list if your ISP provides static IP information to you. You should set static IP address, Subnet mask, and gateway address in the screen below.

Connection Settings			
Connection Type:	Static IP	•	
IP Address:			
Subnet Mask:			
Default GateWay:			
Primary DNS:			
Secondaray DNS:		(Optional)	
Current used MAC Address:	e8:94:f6:de:ad:03		
Mac Clone:	Use Default MAC Address	S	
	O Use Computer MAC Addr	ess	
	○ Use this MAC Address		
			Apply

Figure 5-7 WAN - Static IP

- > IP Address Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- Default Gateway Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- Primary DNS/ Secondary DNS Here you can set DNS Server (at least one) manually. The Route will use this DNS Server for priority.
- Current used MAC Address This field displays the current MAC address of the Internet port.
- MAC Clone You can select one of below methods to change MAC address for this WAN Interface depend on your needs. If you select Use this MAC Address, you can enter the MAC Address you want to change.

Click the **Apply** button to save the settings.

3) L2TP(Dynamic IP)

Choose **L2TP(Dynamic IP)** in the drop-down list if your ISP provides L2TP(Dynamic IP) information to you. You should set User name, Password and Server IP Address/Name in the screen below.

Connection Settings	
Connection Type:	L2TP(Dynamic IP)
User name:	
Password:	
Server IP Address/Name:	
Current used MAC Address:	e8:94:f6:de:ad:03
Mac Clone:	Use Default MAC Address
	O Use Computer MAC Address
	○ Use this MAC Address
	Apply

Figure 5-8

- User name/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.
- Server IP Address/Name Enter the server IP address or domain name provided by your ISP. If you have difficulty with this process, please contact your ISP.
- Current used MAC Address This field displays the current MAC address of the Internet port.
- MAC Clone You can select one of below methods to change MAC address for this WAN Interface depend on your needs. If you select Use this MAC Address, you can enter the MAC Address you want to change.

Click the **Apply** button to save the settings.

4) L2TP(Static)

Choose **L2TP(Static)** in the drop-down list if your ISP provides L2TP(Static IP) information to you. You should set User name, Password, Server IP Address/Name, IP Address, Subnet Mask and Default Gateway in the screen below.

Connection Settings	
Connection Type:	L2TP(Static)
User name:	
Password:	
Server IP Address/Name:	
IP Address:	
Subnet Mask:	
Default GateWay:	
Current used MAC Address:	e8:94:f6:de:ad:03
Mac Clone:	Use Default MAC Address
	O Use Computer MAC Address
	○ Use this MAC Address
	Apply

Figure 5-9

- User name/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.
- Server IP Address/Name Enter the server IP address or domain name provided by your ISP. If you have difficulty with this process, please contact your ISP.
- > **IP Address -** Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- Default Gateway Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- Current used MAC Address This field displays the current MAC address of the Internet port.
- MAC Clone You can select one of below methods to change MAC address for this WAN Interface depend on your needs. If you select Use this MAC Address, you can enter the MAC Address you want to change.

Click the **Apply** button to save the settings.

5.3.2 LAN Settings

Choose "Advanced \rightarrow Network \rightarrow LAN Settings" menu, and you will see the LAN screen (shown in Figure 5-10). Please configure the parameters for LAN ports according to the descriptions below.

LAN Settings				
IP Address:	192.168.1.1			
MAC Address:	e8:94:f6:de:ad:05			
DHCP Settings				
DHCP Server:	☑ Enable DHCP Se	rver		
Start IP Address:	192.168.1.10			
End IP Address:	192.168.1.254			
Leased Time:	60	(1-2880 mi	inutes)	
				Save
DHCP Client List				
MAC Address	IP Address	Duration	Expires	Select
Current System Time:	;;			

Figure 5-10

LAN Settings:

- IP Address Enter the modem router's local IP Address, then you can access to the Web-based management page via the IP Address, the default value is 192.168.1.1.
- MAC Address The physical address of the modem router, as seen from the LAN. The value can't be changed.

DHCP Settings:

- DHCP Sever Check the box to enable this function. If DHCP Server is enabled, the modem router will work as a DHCP server, which provides the TCP/IP configuration for all the PC(s) that are connected to it on the LAN.
- > MAC Address The MAC address of the DHCP client

- Start IP Address Enter a value for the DHCPv6 server to start with when issuing IP addresses.
- > End IP Address Enter a value for the DHCPv6 server to end with when issuing IP addresses.
- Leased Time The Leased Time is the amount of time in which a network user will be allowed connection to the modem router with their current dynamic IP address. Enter the amount of time, in hours, then the user will be "leased" this dynamic IP address. After the dynamic IP address has expired, the user will be automatically assigned a new dynamic IP address. The default is 60 minutes.

Click the Save button to save the settings.

DHCP Clint List:

- > MAC Address The MAC address of the DHCP client
- > **IP Address -** The IP address that the modem router has allocated to the DHCP client
- > **Duration -** Display the total connection time.
- > **Expires-** Display the expiration time of the DHCP client leased.
- > Select Click the $\overline{\mathbb{W}}$ icon to delete this entry.

5.3.3 IPv6 LAN Settings

Choose "Advanced→Network→IPv6 LAN Settings" menu, and you will see the IPv6 LAN screen. Please configure the parameters for IPv6 LAN ports according to the descriptions below.

IPv6 LAN Settin	gs		
IPv6 Address:	Unspecified		
IPv6 Prefix:	::		
System Delegated Pr	efix: ;;		
User defined prefix:	🗌 Enable		
DHCPv6 Server S	Settings		
DHCPv6 Server:	🗹 Enable		
LAN Delegated Prefix	::		
Start Address:			
Number of addresses	255		
Valid Lifetime:	3600		
Rapid Commit:	🗹 Enable Ra	apid Commit	
Unicast:	Enable Ur	nicast	
Stateless Dhcpv6:	🗹 Enable St	ateless DHCPv6	
	Save	Restore DHCPv6 Default	
Client Status			
IP Address	MAC Address	Reachability State	Reachability State

Figure 5-11 IPv6 LAN Settings

IPv6 LAN Settings:

> **IPv6 Address -** Display the modem router's local IPv6 Address.

DHCPv6 Server Settings:

- > **DHCPv6 Server –** Check the box to enable this function.
- Number of addresses Enter a value for the DHCPv6 server to start with when issuing IPv6 addresses.
- **Rapid Commit** Check the box to enable this function.

- Unicast This is disabled by default. The minority of DHCPv6 Server of ISP will not support to enable this. When the modem router is connected right but IPv6 address cannot get, you can select this box.
- **Stateless Dhcpv6 -** Check the box to enable this function.

Client Status:

- > IP Address The IP address of the DHCP client
- > MAC Address The MAC address of the DHCP client

5.3.4 Dynamic DNS

Choose menu "Advanced \rightarrow Network \rightarrow Dynamic DNS", and you can configure the Dynamic DNS function.

The modem router offers the **DDNS** (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as <u>www.dyndns.org</u>. The Dynamic DNS client service provider will give you a password or key.

Dynamic DNS		
DDNS Service:	Disabled 🔹	
User Name:		
Password:		
Host Name:		
IP Address:	0.0.0.0	
Status:	DDNS service is not enabled.	
		Save

Figure 5-12

- DDNS Service The service provider of DDNS. In this field you could select Disabled, <u>www.DynDns.org</u> or <u>www.noip.net</u>. If you have selected <u>www.DynDns.org</u> or <u>www.noip.net</u>, you need to sign up for DDNS service providers.
- **User Name & Password -** Type the "User Name" and "Password" for your DDNS account.
- **Host Name -** Enter the Domain name you want to set.
- > IP Address Display the WAN IP address.

Click the **Save** button to save your settings.

5.3.5 Advanced Routing

Choose	• "Advanced \rightarrow N	letwork → Adv	anced Routing",	you can	view all th	he current	groups on
this pag	je (shown in Figur	re 5-13).					

Advanced Routing		
RIP Authentication:	🗹 Enable	
Authentication Key:		
Authentication Key ID:	0	
Reporting Interval:	30	seconds
Destination IP Address:	0.0.0.0	
Destination IP Subnet Mask:	255.255.255.0	
		Save

Figure 5-13

- **RIP Authentication –** Check the box to enable the RIP Authentication function.
- > Authentication Key Create a key (up to 16 characters) for the RIP authentication.
- > Authentication Key ID Create a ID (up to 3 characters) for identity a authentication key.
- > **Reporting Interval –** Refer to the update interval for routing information.
- Destination IP Address The Destination IP Address is the address of the network or host that you want to assign to a static route.
- Destination IP Subnet Mask –The Destination IP Subnet Mask determines which portion of an IP Address is the network portion, and which portion is the host portion.

Click **Save** button to save the settings.

5.4 Wireless 2.4G



Choose menu "Advanced→Wireless 2.4G", you will see six submenus under the Wireless menu: Basic Settings, Primary Network, Guest Network, MAC Filtering, Wireless Bridging and Wireless Advanced. Click any of them, and you will be able to configure the corresponding function.

5.4.1 Basic Settings

Choose menu "Advanced \rightarrow Wireless 2.4G \rightarrow Basic Settings", you can configure the advanced wireless settings for the wireless 2.4G network.

2.4GHz Basic			
Wireless Radio:	🗹 Enable Wireless		
Power:	100%	•	
Mode:	11b/g/n mixed	•	
Bandwidth:	Auto	•	
Channel:	Auto	•	
			Sa

Figure 5-14

> Wireless Radio – Check the box to enable the Wireless Radio.

- Power Here you can specify the transmit the power of the modem router. You can select 25%, 50%, 75% and 100% which you would like. 100% is the default setting and is recommended.
- > **Mode –** Select the desired mode.

11b/g mixed: Select if you are using both 802.11b and 802.11g wireless clients.

11b/g/n mixed: Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.

Select the desired wireless mode. It is strongly recommended that you set the Mode to **11b/g/n mixed**, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the modem router.

- BandWidth Select the channel width from the drop-down list. The default setting is Auto, which can adjust the channel width for your clients automatically.
- Channel Select the channel you want to use from the drop-down list of Channel. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

P Note:

If **11b/g mixed** is selected in the **Mode** field, the **BandWidth** selecting field value will become 20M hz, and which is unable to be changed.

Click the **Save** button to save the settings.

5.4.2 Primary Network

Choose menu "Advanced \rightarrow Wireless 2.4G \rightarrow Primary Network", You can configure the wireless 2.4G primary network.

Archer CR700	1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router User G	uide

2.4GHz Primary Netwo	ork	
Name(SSID):	TP-LINK_0000	☐ Hide SSID
Security:	WPA/WPA2 Personal(Recomm	ended) 🔻
Version:	○ Auto ○ WPA-PSK ● WP/	A2-PSK
Encryption:	○ Auto ○ TKIP	
Wireless Password:	12345670	
		Save
Router's PIN		
The other device can connect	t to this Router by WPS width the F	Router's PIN Number.
Enable Router's PIN:		
Router's PIN:	12345670 G	enerate
WPS Wizard		
Enable WPS:		
Select a setup method:		
Push Button (Recommend	led)	
Press the physical push butt	on on the router or click the softwa	re push button on this screen.
Connect		
○ PIN Number		

Figure 5-15

2.4GHz Primary Network:

- Name (SSID) Create a name (up to 32 characters) for your 2.4GHz wireless network. The default SSID is set to be TP-LINK_XXXX.
- Hide SSID If you want to hide the SSID of your wireless network from the Wi-Fi network, you should check the box.
- Security There are four wireless security modes supported by the modem router: No Security, WPA/WPA2 Personal (Recommended), WPA/WPA2 Enterprise, WEP. You can choose one of them from the drop-down list.
- 1) No Security: If you do not want to use wireless security, choose No Security. But it's recommended to use wireless security.
- 2) WPA-PSK/WPA2-PSK Personal(Recommended):

- Version –You can choose the version of the WPA-PSK/WPA2-PSK security by selecting Auto, WPA-PSK or WPA2-PSK. The default setting is WPA2-PSK.
- Encryption You can choose the encryption by selecting Auto, TKIP or AES. The default setting is AES.
- Wireless Password You can enter ASCII characters between 8 and 63 characters or 8 to 64 Hexadecimal characters. The default password is the same with the default PIN code, which is labeled on the back of the modem router.
- 3) WPA/WPA2 Enterprise:
- Version –You can choose the version of the WPA/WPA2 Enterprise security by selecting Auto, WPA or WPA2. The default setting is WPA2.
- > Encryption You can select Auto, TKIP or AES as Encryption. The default setting is AES.
- **RADIUS Server IP:** Enter the IP address of the Radius Server.
- > **RADIUS Port:** Enter the port that radius service used.
- > **RADIUS Password:** Enter the password for the Radius Server.
- 4) WEP:
- > Key Selected Select one of the four keys from the drop-down list.
- **Key Type –**You can select the WEP key length (64-bit, or 128-bit.) for encryption.

64-bit: You can enter 10 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 5 ASCII characters.

128-bit: You can enter 26 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 13 ASCII characters.

- Key Format ASCII and Hexadecimal formats are provided here. ASCII format stands for any combination of keyboard characters in the specified length. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length.
- Key Value Enter the WEP key that you create. Make sure these values are identical on all wireless stations in your network.

Note:

If you do not set the key, the wireless security function is still disabled even if you have selected Shared Key.

Router's PIN:

- Enable Router's PIN The switch for the Router's PIN. If you turn on this button, the field will become green and other device can connect to this Router by WPS with the Router's PIN Number.
- Router's PIN The current value of the modem router's PIN is displayed here. The default PIN of the modem router can be found in the label.
- Generate Click this button, and then you can get a new random value for the modem router's PIN. You can ensure the network security by generating a new PIN.

P Note:

You cannot connect other device to this modem router by entering the router's PIN on your client

device if you haven't switch on Enable Router's PIN.

WPS Wizard:

- Select a setup method You can select either of Push Button (Recommended) or PIN Number as the WPS setup method.
- Push Button (Recommended) When you select this method, you can add a new device by pressing the physical button on the router or by clicking the software push Connect button on this screen.
- PIN Number When you select this method, you can add a new device by entering the client's PIN in the field and then click Connect button.

To add a new device:

If the wireless adapter supports Wi-Fi Protected Setup (WPS), you can establish a wireless connection between wireless adapter and modem router using either Push Button method or PIN Number method.

P Note:

To build a successful connection by WPS, you should also do the corresponding configuration of the new device for WPS function meanwhile.

I. Use the WPS Button

Use this method if your client device has a Wi-Fi Protected Setup (WPS) button.

Step 1: Press the physical button on the router (as shown in Figure 5-16) or click the software push button: **Connect** (as shown in Figure 5-17).



Figure 5-16

Select a setup method:

Push Button (Recommended)

Press the physical push button on the router or click the software push button on this screen.

Connect

Figure 5-17

- Step 2: Press and hold the WPS button of the client device directly.
- Step 3: The WPS LED flashes for two minutes during the Wi-Fi Protected Setup process.
- Step 4: When the WPS LED is on, the client device has successfully connected to the modem router.

Refer back to your client device or its documentation for further instructions.

II. Enter the client device's PIN on the modem router

Use this method if your client device has a Wi-Fi Protected Setup PIN number.

Step 1: Enter the PIN number from the client device in the field, as shown in the following figure. Then click **Connect** button.

IN Number	
Enter the client's PIN:	Connect



Step 2: "Device has been added successfully!" will appear on the screen, which means the client device has successfully connected to the modem router.

S Note:

- 1) The WPS LED on the modem router will light green for five minutes if the device has been successfully added to the network.
- 2) The WPS function cannot be configured if the **Enable Router's PIN** switch is off. Please make sure the **Enable Router's PIN** switch is on before configuring the WPS.

5.4.3 Guest Network

Choose menu "Advanced \rightarrow Wireless 2.4G \rightarrow Guest Network", you can configure the advanced settings of your guest network.

Archer GR700 1750 wireless Duar Band DOCSIS 5.0 Cable Modern Router Oser Guid	Archer CR700	1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router User Guide
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Settings	
See each other	C Allow quests to see each other
See each other.	Allow guests to see each other
Access my local network:	${oxed M}$ Allow guests to access to my local network
Wireless	
Wireless radio:	Enable Guest Network
Name(SSID):	TP-LINK_Guest_2.4GHz
Security:	O No Security
Version:	○ Auto ○ WPA-PSK
Encryption:	○ Auto ○ TKIP
Wireless Password:	12345670
	Save

Figure 5-19

Settings:

- See each other If Allow guests to see each other is selected, anyone who connects to the guest network can access each other.
- Access my local network If Allow guests to access my local network is selected, anyone who connects to the guest network has access to your local network, not just Internet access.

Wireless:

- Wireless radio Check the box to enable this function. The guest network function is disabled by default.
- Name (SSID) Create a name for the guest network. When setting up a Guest network, it is strongly recommended to use a name that easily distinguishes it from your primary network. The default name is TP-LINK_Guest_2.4GHz. If you want to hide the guest network from the Wi-Fi network, check the Hide SSID.
- Security It's strongly recommended to select WPA/WPA2 Personal. If you do not want to use wireless security, choose No Security.
- Version -You can choose the version of the WPA-PSK/WPA2-PSK security by selecting Auto, WPA-PSK or WPA2-PSK. The default setting is WPA2-PSK.
- > Encryption You can choose the encryption by selecting Auto, TKIP or AES.
- Wireless Password Create a password for the guest network. The password must have a minimum of 8 characters in length.

Click Save button to save the settings.

5.4.4 Wireless Advanced

Choose menu "Advanced \rightarrow Wireless 2.4G \rightarrow Wireless Advanced", you can configure the advanced settings of your wireless network.

2.4GHz Advanced		
Beacon Interval:	100	
beacon interval.	100	
DTIM Interval:	1	
Fragmentation Threshold:	2346	
RTS Threshold:	2347	
Short GI:	Auto	•
	🗹 Enable WMM	
	🗹 Enable Power Save Supp	port

Figure 5-20

2.4GHz Advanced:

- Beacon Interval Enter a value between 25-1000 milliseconds for Beacon Interval here. The beacons are the packets sent by the modem router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons. The default value is 100.
- DTIM Interval This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the modem router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- Fragmentation Threshold This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- RTS Threshold Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the modem router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2347.
- Short GI Feature This function is recommended for it will increase the data capacity by reducing the guard interval time. Short GI is enabled by default.
- Enable WMM Check the box to enable this function. WMM function can guarantee the packets with high-priority messages being transmitted preferentially, which is strongly recommended. It is enabled by default.

Enable Power Save Support - Check the box to enable this function. This function can make the wireless client has only antenna is in working condition, and the remaining antennas are dormant, so as to achieve the purpose of saving power.

Click the **Save** button to save the settings.

5.4.5 MAC Filtering

Choose menu "Advanced \rightarrow Wireless 2.4GHz \rightarrow MAC Filtering", you can control the wireless access by configuring the MAC Filtering function, shown in Figure 5-21.

2.4GHz Access Control							
Wireless Interface TP-LINK_2.4GHz_0000							
Enable MAC Filtering:							
Filtering	Filtering Rules						
Select the Filtering Rule: Block List(All Devices in this list can not access this router.) Allow List(Only Device in this list can access this router.) Save							
Devices	in List						
🕂 Add							
	ID		MAC Address			Modify	
Wireless Stations Online							
ID	MAC Address	Age(s)	RSSI(dBm)	IP Addres	s	Host Name	

Figure 5-21 Wireless 2.4GHz – MAC Filering

2.4GHz Access Control:

- > Wireless Interface Select an available wireless interface from the drop-down list.
- Enable MAC Filtering- The switch for the MAC Filtering. If you turn on this button, the field will become green and you can filter wireless users by MAC Address.

Filtering Rules:

Select the Filtering Rule - You can select either of Block List or Allow List as the MAC filtering rule.

Click the **Save** button to save the settings.

Devices in List:

- Add You can add a new device for the MAC Filtering rule by clicking ¹ Add button.
- MAC Address This field displays the MAC address of the wireless station that cannot access this router/can access this router.
- > Modify Click the 🔟 icon to delete this entry.

To add a MAC Address Filtering entry:

- 1. Click ¹Add button, then you will see a setting page.
- 2. Enter the appropriate MAC Address into the **MAC Address** field. The format of the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). For example: 00:1D:0F:11:22:33.

Devices in List						
			tha 🕀			
	ID	MAC Address	Modify			
MAC A	ddress:					
			OK Cancel			

Figure 5-22

3. Click the **OK** button to save this entry. If you do not want to save this entry, click the **Cancel** button.

For example: If you desire that the wireless station A with MAC address 00:1D:0F:11:22:33 and the wireless station B with MAC address 00:0A:EB:00:07:5F are able to access the modem router, but all the other wireless stations cannot access the modem router, you can configure the **MAC Filtering** settings by following these steps:

- 1. Switch on the **Enable MAC Filtering** button to enable this function.
- 2. Select the White List for Filtering Rules.
- 3. Delete all or disable all entries if there are any entries already.
- 4. Click the CAdd button.
 - 1) Enter the MAC address 00:1D:0F:11:22:33/00:0A:EB:00:07:5F in the **MAC Address** field.
 - 2) Click the **OK** button.

The filtering rules that configured should be similar to the following figure:

Devices in List						
			🔂 Add			
	ID	MAC Address	Modify			
	1	00:1D:0F:11:22:33	Ŵ			
	2	00:0A:EB:00:07:5F	Ŵ			



Wireless Stations Online:

- > **MAC Address -** The MAC address of the wireless station online.
- > Age(s) Display the duration time of wireless station online.
- > **RSSI(dBm) –** Refers to the Received Signal Strength Indication.
- > **IP Address-** The IP address of the wireless station online.
- > Host Name Display the host name of the wireless station.

5.4.6 Wireless Bridging

Choose menu "Advanced \rightarrow Wireless 2.4G \rightarrow Wireless Bridging". With this function, the modem router can bridge more WLANs.

2.4GHz Bridging			
Wireless Bridging:	Enable WDS	Scan AP	
Remote Bridges:			
			Save

Figure 5-24

- WDS Bridging With this function, the modem router can bridge more WLANs. If you check the Enable WDS, you can click the Scan AP button to scan the nearby wireless access points.
- Remote Bridges Enter the MAC address the AP your modem router is going to connect to as a client. You can also use the Scan AP function to select the BSSID to join.

Click the **Save** button to save the settings.

5.5 Wireless 5G



Choose menu "Advanced \rightarrow Wireless 5G", you will see six submenus under the Wireless menu: Basic Settings, Primary Network, Guest Network, MAC Filtering, Wireless Bridging and Wireless Advanced. Click any of them, and you will be able to configure the corresponding function.

5.5.1 Basic Settings

Choose menu "Advanced \rightarrow Wireless 5G \rightarrow Basic Settings", you can configure the advanced wireless settings for the wireless 5G network.

5GHz Basic			
Wireless Radio:	🗹 Enable Wireless		
Power:	100%	•	
Mode:	11a/n/ac mixed	•	
Bandwidth:	80Mhz	•	
Channel:	Auto	•	
			Sa

Figure 5-25

> Wireless Radio – Check the box to enable the Wireless Radio.

- Power Here you can specify the transmit the power of the modem router. You can select 25%, 50%, 75% and 100% which you would like. 100% is the default setting and is recommended.
- > **Mode –** Select the desired mode.

11a: Select if you are using 802.11a wireless clients.

11a/n mixed: Select if you are using a mix of 802.11a and 11n wireless clients.

Select the desired wireless mode. It is strongly recommended that you set the Mode to **11b/g/n mixed**, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the modem router.

11a/n mixed: Select if you are using a mix of 802.11a and 11n wireless clients.

Select the desired wireless mode. It is strongly recommended that you set the Mode to **11b/g/ac mixed**, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the modem router.

- BandWidth Select the channel width from the drop-down list. The default setting is Auto, which can adjust the channel width for your clients automatically.
- Channel Select the channel you want to use from the drop-down list of Channel. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

P Note:

If **11b/g mixed** is selected in the **Mode** field, the **BandWidth** selecting field value will become 20M hz, and which is unable to be changed.

Click the **Save** button to save the settings.

5.5.2 Primary Network

Choose menu "Advanced \rightarrow Wireless 5G \rightarrow Primary Network", You can configure the wireless 5G primary network.

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5GHz Primary Network	
Name(SSID):	TP-LINK_0000_5GHz
Security:	WPA/WPA2 Personal(Recommended)
Version:	○ Auto ○ WPA-PSK
Encryption:	○ Auto ○ TKIP
Wireless Password:	12345670
	Save
Router's PIN	
The other device can connect	to this Router by WPS width the Router's PIN Number.
Enable Router's PIN:	
Router's PIN:	12345670 Generate
WPS Wizard	
Enable WPS:	
Select a setup method:	
Push Button (Recommended)	ed)
Press the physical push butto	n on the router or click the software push button on this screen.
Connect	
O PIN Number	

Figure 5-26

2.4GHz Primary Network:

- > Wireless Radio Check the box to enable the Wireless Radio.
- Name (SSID) Create a name (up to 32 characters) for your 5GHz wireless network. The default SSID is set to be TP-LINK_XXXX_5GHz.
- Hide SSID If you want to hide the SSID of your wireless network from the Wi-Fi network, you should check the box.
- Security There are four wireless security modes supported by the modem router: No Security, WPA/WPA2 Personal (Recommended), WPA/WPA2 Enterprise, WEP. You can choose one of them from the drop-down list.
- 5) No Security: If you do not want to use wireless security, choose No Security. But it's recommended to use wireless security.
- 6) WPA-PSK/WPA2-PSK Personal(Recommended):

- Version –You can choose the version of the WPA-PSK/WPA2-PSK security by selecting Auto, WPA-PSK or WPA2-PSK. The default setting is WPA2-PSK.
- Encryption You can choose the encryption by selecting Auto, TKIP or AES. The default setting is AES.
- Wireless Password You can enter ASCII characters between 8 and 63 characters or 8 to 64 Hexadecimal characters. The default password is the same with the default PIN code, which is labeled on the back of the modem router.
- 7) WPA/WPA2 Enterprise:
- Version –You can choose the version of the WPA/WPA2 Enterprise security by selecting Auto, WPA or WPA2. The default setting is WPA2.
- > Encryption You can select Auto, TKIP or AES as Encryption. The default setting is AES.
- **RADIUS Server IP:** Enter the IP address of the Radius Server.
- > **RADIUS Port:** Enter the port that radius service used.
- > **RADIUS Password:** Enter the password for the Radius Server.
- 8) WEP:
- > Key Selected Select one of the four keys from the drop-down list.
- **Key Type –**You can select the WEP key length (64-bit, or 128-bit.) for encryption.

64-bit: You can enter 10 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 5 ASCII characters.

128-bit: You can enter 26 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 13 ASCII characters.

- Key Format ASCII and Hexadecimal formats are provided here. ASCII format stands for any combination of keyboard characters in the specified length. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length.
- Key Value Enter the WEP key that you create. Make sure these values are identical on all wireless stations in your network.

Note:

If you do not set the key, the wireless security function is still disabled even if you have selected Shared Key.

Router's PIN:

- Enable Router's PIN The switch for the Router's PIN. If you turn on this button, the field will become green and other device can connect to this Router by WPS with the Router's PIN Number.
- Router's PIN The current value of the modem router's PIN is displayed here. The default PIN of the modem router can be found in the label.
- Generate Click this button, and then you can get a new random value for the modem router's PIN. You can ensure the network security by generating a new PIN.

P Note:

You cannot connect other device to this modem router by entering the router's PIN on your client

device if you haven't switch on Enable Router's PIN.

WPS Wizard:

- Select a setup method You can select either of Push Button (Recommended) or PIN Number as the WPS setup method.
- Push Button (Recommended) When you select this method, you can add a new device by pressing the physical button on the router or by clicking the software push Connect button on this screen.
- PIN Number When you select this method, you can add a new device by entering the client's PIN in the field and then click Connect button.

To add a new device:

If the wireless adapter supports Wi-Fi Protected Setup (WPS), you can establish a wireless connection between wireless adapter and modem router using either Push Button method or PIN Number method.

P Note:

To build a successful connection by WPS, you should also do the corresponding configuration of the new device for WPS function meanwhile.

III. Use the WPS Button

Use this method if your client device has a Wi-Fi Protected Setup (WPS) button.

Step 5: Press the physical button on the router (as shown in Figure 5-27) or click the software push button: **Connect** (as shown in Figure 5-28).



Figure 5-27

WPS Wizard
Select a setup method:
Push Button (Recommended)
Press the physical push button on the router or click the software push button on this screen.
Connect

Figure 5-28

Step 6: Press and hold the WPS button of the client device directly.

- **Step 7:** The WPS LED flashes for two minutes during the Wi-Fi Protected Setup process.
- Step 8: When the WPS LED is on, the client device has successfully connected to the modem router.

Refer back to your client device or its documentation for further instructions.

IV. Enter the client device's PIN on the modem router

Use this method if your client device has a Wi-Fi Protected Setup PIN number.

Step 3: Enter the PIN number from the client device in the field, as shown in the following figure. Then click **Connect** button.

WPS Wizard
Select a setup method:
O Push Button (Recommended)
PIN Number
Enter the client's PIN: Connect

Figure 5-29

Step 4: "Device has been added successfully!" will appear on the screen, which means the client device has successfully connected to the modem router.

P Note:

- 1) The WPS LED on the modem router will light green for five minutes if the device has been successfully added to the network.
- 2) The WPS function cannot be configured if the **Enable Router's PIN** switch is off. Please make sure the **Enable Router's PIN** switch is on before configuring the WPS.

5.5.3 Guest Network

Choose menu "Advanced \rightarrow Wireless 5G \rightarrow Guest Network", you can configure the advanced settings of your guest network.

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Settings	
See each other:	☑ Allow guests to see each other
Access my local network:	Allow guests to access to my local network
Wireless	
Wireless radio:	Enable Guest Network
Name(SSID):	TP-LINK_Guest_5GHz
Security:	O No Security
Version:	○ Auto ○ WPA-PSK
Encryption:	○ Auto ○ TKIP ● AES
Wireless Password:	12345670
	Save

Figure 5-30

Settings:

- See each other If Allow guests to see each other is selected, anyone who connects to the guest network can access each other.
- Access my local network If Allow guests to access my local network is selected, anyone who connects to the guest network has access to your local network, not just Internet access.

Wireless:

- Wireless radio Check the box to enable this function. The guest network function is disabled by default.
- Name (SSID) Create a name for the guest network. When setting up a Guest network, it is strongly recommended to use a name that easily distinguishes it from your primary network. The default name is TP-LINK_Guest_5GHz. If you want to hide the guest network from the Wi-Fi network, check the Hide SSID.
- Security It's strongly recommended to select WPA/WPA2 Personal. If you do not want to use wireless security, choose No Security.
- Version -You can choose the version of the WPA-PSK/WPA2-PSK security by selecting Auto, WPA-PSK or WPA2-PSK. The default setting is WPA2-PSK.
- > Encryption You can choose the encryption by selecting Auto, TKIP or AES.
- Wireless Password Create a password for the guest network. The password must have a minimum of 8 characters in length.

Click Save button to save the settings.

5.5.4 MAC Filtering

Choose menu "Advanced \rightarrow Wireless 5GHz \rightarrow MAC Filtering", you can control the wireless access by configuring the MAC Filtering function.

5GHz Ac	cess Contr	ol				
Wireless In	terface	TP-LINK_	5GHz_0000 🔻			
Enable MAC	Filtering:					
Filtering	Rules					
Select the Filtering Rule: Block List(All Devices in this list can not access this router.) Allow List(Only Device in this list can access this router.) Save						
Devices	in List					
					🔂 Add	
	ID		MAC Address		Modify	
Wireless Stations Online						
ID	MAC Address	Age(s)	RSSI(dBm)	IP Address	Host Name	

Figure 5-31 Wireless 5GHz – MAC Filering

5GHz Access Control:

- > Wireless Interface Select an available wireless interface from the drop-down list.
- Enable MAC Filtering- The switch for the MAC Filtering. If you turn on this button, the field will become green and you can filter wireless users by MAC Address.

Filtering Rules:

Select the Filtering Rule - You can select either of White List or Black List as the MAC filtering rule.

Click the **Save** button to save the settings.

Devices in List:

Add - You can add a new device for the MAC Filtering rule by clicking C Add button.

- MAC Address This field displays the MAC address of the wireless station that cannot access this router/can access this router.
- > Modify Click the III icon to delete this entry.

To add a MAC Address Filtering entry:

- 1. Click ^CAdd button, then you will see a setting page.
- Enter the appropriate MAC Address into the MAC Address field. The format of the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). For example: 00:1D:0F:11:22:33.

			🔂 Add
	ID	MAC Address	Modify
MAC Addre	255:		
ок	Can	cel	

Figure 5-32

3. Click the **OK** button to save this entry. If you do not want to save this entry, click the **Cancel** button.

For example: If you desire that the wireless station A with MAC address 00:1D:0F:11:22:33 and the wireless station B with MAC address 00:0A:EB:00:07:5F are able to access the modem router, but all the other wireless stations cannot access the modem router, you can configure the **MAC Filtering** settings by following these steps:

- 1. Switch on the **Enable MAC Filtering** button to enable this function.
- 2. Select the White List for Filtering Rules.
- 3. Delete all or disable all entries if there are any entries already.
- 4. Click the GAdd button.
 - 3) Enter the MAC address 00:1D:0F:11:22:33/00:0A:EB:00:07:5F in the **MAC Address** field.
 - 4) Click the **OK** button.

The filtering rules that configured should be similar to the following figure:

Devices in List				
			🔂 Add	
	ID	MAC Address	Modify	
	1	00:1D:0F:11:22:33	Ŵ	
	2	00:0A:EB:00:07:5F	Ŵ	



Wireless Stations Online:

Wireless Stations Online

ID	MAC Address	Age (s)	RSSI (dBm)	IP Address	Host Name

- > MAC Address The MAC address of the wireless station online.
- > Age(s) Display the duration time of wireless station online.
- **RSSI(dBm) –** Refers to the Received Signal Strength Indication.
- > **IP Address-** The IP address of the wireless station online.
- > Host Name Display the host name of the wireless station.

5.5.5 Wireless Bridging

Choose menu "Advanced \rightarrow Wireless 5G \rightarrow Wireless Bridging". With this function, the modem router can bridge more WLANs.

5GHz Bridging			
Wireless Bridging:	Enable WDS	Scan AP	
Remote Bridges:			
			Save

Figure 5-34

- WDS Bridging With this function, the modem router can bridge more WLANs. If you check the Enable WDS, you can click the Scan AP button to scan the nearby wireless access points.
- Remote Bridges Enter the MAC address the AP your modem router is going to connect to as a client. You can also use the Scan AP function to select the BSSID to join.

Click the **Save** button to save the settings.

5.5.6 Wireless Advanced

Choose menu "Advanced \rightarrow Wireless 5G \rightarrow Wireless Advanced", you can configure the advanced settings of your wireless network.

5GHz Advanced				
Beacon Interval:	100			
DTIM Interval:	1			
Fragmentation Threshold:	2346			
RTS Threshold:	2347			
Short GI:	Auto			
	🗹 Enable WMM			
	☑ Enable Power Save Support			

Figure 5-35

5GHz Advanced:

- Beacon Interval Enter a value between 25-1000 milliseconds for Beacon Interval here. The beacons are the packets sent by the modem router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons. The default value is 100.
- DTIM Interval This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the modem router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- Fragmentation Threshold This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- RTS Threshold Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the modem router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2347.

- Short GI Feature This function is recommended for it will increase the data capacity by reducing the guard interval time. Short GI is enabled by default.
- Enable WMM Check the box to enable this function. WMM function can guarantee the packets with high-priority messages being transmitted preferentially, which is strongly recommended. It is enabled by default.
- Enable Power Save Support Check the box to enable this function. This function can make the wireless client has only antenna is in working condition, and the remaining antennas are dormant, so as to achieve the purpose of saving power.

Click the **Save** button to save the settings.

5.6 NAT Forwarding

O NAT Forwarding
IP Filtering
MAC Filtering
Port Filtering
Port Forwarding
Port Triggers
DMZ
Options

Figure 5-36 The Forwarding menu

There are seven submenus under the Forwarding menu: **IP Filtering**, **MAC Filtering**, **Port Filtering**, **Port Triggers**, **DMZ** and **Options**. Click any of them, and you will be able to configure the corresponding function.

5.6.1 IP Filtering

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow IP Filtering", and then you can control the client's access by configuring the IP Filtering function.

IP Filtering							
				🔂 Ad	d 😑 Delete		
	ID	Start IP Address	End IP Address	Enable	Modify		

Figure 5-37

To add a IP Address Filtering entry:

- 1. Click Contract Add button, then you will see a setting page.
- 2. Enter the Start IP Address and the End IP Address.
- 3. Check **Enable this Entry** for this entry, as shown in the following figure.

IP Filtering								
						•	Add 😑 Delete	
	ID	Start IP Address	3	End IP Addre	SS	Enable	Modify	
	Start	IP:						
	End I	P:						
Enable:			🗌 Enal	ble this Entry				
					Can	icel	ок	

Figure 5-38

4. Click the **OK** button to save this entry. If you do not want to save this entry, click the **Cancel** button.

5.6.2 MAC Filtering

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow MAC Filtering", and then then you can control the client's access by configuring the MAC Filtering function.

MAC Filtering					
			🕀 Add 🖨 Delete		
	ID	MAC Addresses	Delete		

Figure 5-39

To add a MAC Address Filtering entry:

- 1. Click Click Add button, then you will see a setting page.
- 2. Enter the appropriate MAC Address into the **MAC Address** field. The format of the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). For example: 00:1D:0F:11:22:33.

MAC Filte	ring		
			🕒 Add 😑 Delete
	ID	MAC Addresses	Delete
MAC Addresses:		(e	xample: 01:23:45:67:89:AB)
		Ca	ncel Add

Figure 5-40

3. Click the **Add** button to save this entry. If you do not want to save this entry, click the **Cancel** button.

5.6.3 Port Filtering

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow Port Filtering", and then then you can control the client's access by configuring the Port Filtering function.

Port Filtering							
				G A	Add 🕝 Refresh 🇧	Delete	
	ID	Start Port	End Port	Portocol	Enabled	Edit	
Figure 5-41

To add a IP Address Filtering entry:

- 1. Click Click Add button, then you will see a setting page.
- 2. Enter the Start Port and the End Port.
- 3. Select the **Protocol** which you want.
- 4. Check Enable this Entry for this entry, as shown in the following figure.

Port Filtering

			C	Add 🥝 Refresh 🄇	Delete
ID	Start Port	End Port	Portocol	Enabled	Edit
Start P	ort:				
End Po	rt:				
Protoco	bl:	ТСР	•		
Enable	:	Enabled this en	itry		
			Car	ncel OK	

Figure 5-42

5. Click the **OK** button to save this entry. If you do not want to save this entry, click the **Cancel** button.

5.6.4 Port Forwarding

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow Port Forwarding", and then then you will see the screen as shown below.

For	wa	ding						
						G	Add 🧲	Delete
	ID	Service Name	External Port	Internal IP	Internal Port	Protocol	Enable	Modify

> Service Name - The virtual server you want to use.

- External Port The numbers of External Service Ports. You can enter a service port or a range of service ports (the format is XXX – YYY; XXX is the Start port and YYY is the End port).
- > Internal IP The IP address of the PC running the service application.
- Internal Port The Internal Service Port number of the PC running the service application. You can leave it blank if the Internal Port is the same as the Service Port, or enter a specific port number when External Port is a single one.
- Protocol The protocol used for this application, either TCP, UDP, or All (all protocols supported by the router).
- > **Enable –** Click the \bigcirc icon to enable the function. If this function has taken effect, the icon will become \bigcirc .
- > **Modify** Click the \checkmark icon to edit the corresponding entry. If you want to delete this entry, you can click the 1 icon.

To setup a virtual server entry:

- 1. Click the 😳 Add button.
- 2. Enter the **Service Name**.
- 3. Enter the external port of the computer running the service application in the **External Port** field.
- 4. Enter the IP address of the computer running the service application in the Internal IP field.
- 5. Enter the internal port of the computer running the service application in the **Internal Port** field.
- 6. Select the protocol used for this application in the **Protocol** drop-down list, either **TCP**, **UDP**, or **All**.
- 7. Enable the **Enabled this entry** checkbox.
- 8. Click the **OK** button.

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Forwa	ading								
							C	Add 🧲	Delete
	Service Name	External	Port	Internal IP	Intern	al Port	Protocol	Enable	Modify
					-				
S	Service Name:								
E	ExternalPort Port:								
I	Internal IP:								
I	Internal Port:								
F	Protocol:		тс	р		•			
E	Enable:		🗌 En	able this Entry					
						Ca	ncel	ок	

Figure 5-43

Note:

- 1. It is possible that you have a computer or server that has more than one type of available service. If so, select another service, and type the same IP address for that computer or server.
- If you set the service port of the virtual server as 80, you must set the Web management port on Advanced-Security-Remote Management page to be any other value except 80 such as 8080. Otherwise there will be a conflict to disable the virtual server.

5.6.5 Port Triggers

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow Port Triggering", you can view and add port triggering in the next screen shown in Figure 5-42. Some applications require multiple connections, like Internet games, video conferencing, Internet telephoning and so on. Port Triggering is used for some of these applications that cannot work with a pure NAT modem router.

Po	rt '	Trigg	ers						
							G A	dd 😑	Delete
	ID	Desc	Trigger Start Port	Trigger End Port	External Start Port	External End Port	Proto	Enable	Modify

Figure 5-44 Port Triggering

- > **Applications** The applications you want to use.
- Triggering Port The port for outgoing traffic. An outgoing connection using this port will trigger this rule.
- Triggering Protocol The protocol used for Trigger Ports, either TCP, UDP, or All (all protocols supported by the router).
- External Port The port or port range used by the remote system when it responds to the outgoing request. A response using one of these ports will be forwarded to the PC which triggered this rule. You can input at most 5 groups of ports (or port sections). Every group of ports must be separated with ",", for example, 2000-2038, 2046, 2050-2051, 2085, 3010-3030.
- External Protocol The protocol used for External Port, either TCP, UDP, or ALL (all protocols supported by the router).
- Enable Click the bicon to enable the function. If this function has taken effect, the icon will become Q.
- Modify Click the icon to edit the corresponding entry. If you want to delete this entry, you can click the icon.

To add a new rule, follow the steps below.

- 1. Click the 😳 Add button.
- 2. Select an available interface from the **Interface Name** drop-down list.
- 3. Click the **View Service** button to select the application you want to use. Then the number of the **Triggering port** and **External Port** will be auto-configured according to your selection. If the **View Service** menu does not list the application that you want to use, enter the **Application**, the number of the **Triggering port** and **External Port**.
- 4. Select the protocol used for this application in the **Triggering protocol** and **External Protocol** drop-down list, either **TCP**, **UDP**, or **All**.
- 5. Enable the **Enabled this entry** checkbox.
- 6. Click the **OK** button.

ort	Trigg	ers							
							()	dd 😑	Delete
] ID	Desc	Trigger Start Port	Trigg	ger End Port	External Start Port	External End Port	Proto	Enable	Modify
	Applica	ation:			· · · · · · · · · · · · · · · · · · ·				
	Trigge	er Start Port:							
	Trigge	er End Port:							
	Extern	nal Start Port:							
	Extern	nal End Port:							
	Protoc	col:		ALL		•			
				Enabl	e this Entry				
						Cancel		ок	
] ID	ID Desc Applic Trigge Exterr Exterr Protoc	ID Desc Trigger Start Port ID ID ID ID ID	ID Desc Trigger Start Port ID Image: Start Port Image: Start Port Image: Application: Trigger Start Port: Image: Trigger End Port: Image: Start Port: Image: External Start Port: Image: Start Port: Image: Protocol: Image: Start Port:	ID Desc Trigger Start Port Port Application: Trigger Start Port: Image: Start Port: Image: Start Port: Trigger End Port: Image: Start Port: Image: Start Port: External Start Port: Image: Start Port: Image: Start Port: Protocol: ALL	ID Desc Trigger Start Trigger End External Start ID ID ID ID ID ID ID ID ID ID ID ID ID ID <t< th=""><th>ID Desc Trigger Start Port Trigger End Port External Start Port External End Port Application: </th><th>ID Dess Trigger Start Port Trigger End Port External Start Port External End Port Image: Start Port: Image:</th><th>ID Desc Trigger Start Trigger End External Start External End Proto Enable Application: </th></t<>	ID Desc Trigger Start Port Trigger End Port External Start Port External End Port Application:	ID Dess Trigger Start Port Trigger End Port External Start Port External End Port Image: Start Port: Image:	ID Desc Trigger Start Trigger End External Start External End Proto Enable Application:

Figure 5-45 Add or Modify a Triggering Entry

Note:

- 1. When the trigger connection is released, the corresponding opened ports will be closed.
- 2. Each rule can only be used by one host on the LAN at a time. The trigger connection of other hosts on the LAN will be refused.
- 3. **External Port** ranges cannot overlap each other.

5.6.6 DMZ

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow DMZ", and then you can view and configure DMZ host in the screen shown in Figure 5-44. The DMZ host feature allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing. The router forwards packets of all services to the DMZ host. Any PC whose port is being forwarded must have its DHCP client function disabled and should have a new static IP Address assigned to it because its IP Address may be changed when using the DHCP function.

DMZ Host				
DMZ Address:	192.168.1.	0		
				Apply

Figure 5-46 DMZ

To assign a computer or server to be a DMZ server:

- 1. Select the **Enable DMZ** checkbox.
- 2. Enter the IP address of a local PC that is set to be DMZ host in the **DMZ Host IP Address** field.
- 3. Click the **Apply** button.

5.6.7 Options

Choose menu "Advanced \rightarrow NAT Forwarding \rightarrow Options", and then you can view the information in the screen shown in Figure 5-45.

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Options				
IPSec Passt	hrough	🗹 Enable		
PPTP Passtr	nrough	🗹 Enable		
Multicast En	able	🗹 Enable		
UPnP Enable	e	🗹 Enable		
FTP ALG Ena	able	🗹 Enable		
TFTP ALG Er	nable	🗹 Enable		
H225 ALG E	nable	🗹 Enable		
PPTP ALG Er	nable	🗹 Enable		
SIP ALG Ena	able	🗹 Enable		
				Save
PassThro	ugh Mac A	Addresses		
			🔁 A	.dd 🥝 Refresh 😑 Delete
	ID		MAC Address	Modify

Figure 5-47

5.7 USB Settings



Figure 5-48 The USB Settings menu

There are four submenus under the USB Settings menu (shown in Figure 5-46): **Disk Settings**, **Folder Sharing** and **Print Server**. Click any of them, and you will be able to configure the corresponding functions.

5.7.1 Disk Settings

Choose menu "Advanced \rightarrow USB Settings \rightarrow Disk Settings", you can configure the USB disk drive attached to the modem router and view the information.

Disk S	ettings			
Sca	n			
MyDigit	Flash Disk (3.2 GB)			📀 Safely Remove
ID	Volume	Capacity	Free Space	Status
1	sda1	3.2 GB	3.1 GB	Ŷ

Figure 5-49 Device Settings

Click the **Scan** button to scan the USB drive connected to the router.

- > Volume The volume name of the USB drive the users have access to.
- > **Capacity** The storage capacity of the USB driver.
- > Free Space- The available space of the USB driver.
- Status: When the volume is shared, you can click the \bigcirc icon to stop sharing the volume; when volume is non-shared, you can click to \bigcirc icon share the volume.

Click OSafely Remove button to remove the USB storage device that is connected to USB port.

5.7.2 Folder Sharing

Choose menu "Advanced→USB Settings→Folder Sharing", you can configure the sharing account and sharing settings.

Set a sha	ring account for access to	o the sharing co	ntents.		
Account:		Use Default	: Account	Use Custom Acco	ount
Username	2.	admin			
Deeeword				(Came as Lesia D)
Password				(Same as Login P	assword)
					Save
Sharing	Setting				
			b		
Network/I	Media Server Name:	Archer_VR200)v		
Enable	Access Me	thod		Link	Port
	Network Neigh	borhood	\\Are	cher_VR200v	
	FTP		ftp://1	192.168.1.1:21	21
	FTP(via Inte	ernet)	ftp:	//0.0.0.21	21
Sharing	Folders(Media file,	, Document	files, Com	press files and	Save d so on.)
	haring All:				
Enable Sn					🕝 Refresh
Enable Sn Enable Au					
Enable Sn Enable Au ID	Share Name		Folder	r Path	Volume

Figure 5-50 Folder Sharing

Sharing Account

- Account You can select Use Default Account or Use Custom Account to log in sharing Folders.
 - **Use Default Account -** Select this radio button, and the sharing account username is **admin**, and password is the same as Login Password.
 - **Use Custom Account** Select this radio button, then you have to specify the new username and password in the **Username** and **Password** fields for sharing account.

Click **Save** button to save these settings.

Sharing Settings

- Network/Media Server Name Show the name of the network/media server. This is the name used to access the USB device connected to the router.
- > Access Method Select the check boxes for the access methods that you want.
 - 1) **Network Neighborhood:** This method is enabled by default. To access the USB drive for example from a Windows computer:
 - i. Select **Start > Run**.
 - ii. Enter <u>\LAN IP</u> in the dialog box and click the **OK** button. The default address is <u>\\192.168.1.1</u>.
 - 2) FTP: This method is enabled by default. If you select this check box and click the Save button, the LAN users can access the USB drive through FTP. To access the USB drive for example from a Windows computer:
 - i. Select **Start > Run**.
 - iii. Enter <u>ftp://LAN IP:port</u> in the dialog box and click the **OK** button. The default address is <u>ftp://192.168.1.1:21</u>.
 - 3) FTP (via Internet): This method is disabled by default. If you select this check box, remote users can access the USB drive through FTP over the Internet. This feature supports both downloading and uploading of files. To access the USB drive for example from a Windows computer:
 - i. Select **Start > Run**.
 - ii. Enter <u>ftp://WAN IP:port</u> in the dialog box and click the **OK** button.

P Note:

- 1. If the LAN IPv4 is changed, the link for access Network Neighborhood and FTP will be changed to the same IP address.
- 2. If the port for FTP (via Internet) is changed, the port for FTP will be changed to the same port.

Sharing Folders (Media file, Document files, Compress files and so on.)

- Enable Sharing All The switch for sharing all the folders. If you turn on the switch, the field will become green and all the folders in the USB drive will be shared.
- Enable Authentication If you turn on this switch, the folder sharing needs authentication. The default setting is off.

To share the folders you specified, please follow the steps below.

1. Turn off the **Enable Sharing All** switch and the next screen will pop-up as shown in Figure 5-49.

Enable	Sharing	g All:				🕂 Add	😑 Delete
	ID	Share Name	Folder Path	Media Sharing	Volume	Enable	Modify

Figure 5-51 Add or Modify Share Folder

2. Click the 😌 Add button and the next screen will pop-up as shown in Figure 5-50.

Volume:	Select options.	•			
Folder Path:			Browse		
Share Name:					
	Enable Authentication				
	Write Access				
	Enable Media Sharing				
			Cancel	ОК	

Figure 5-52 Add Share Folder

3. Select the volume desired to share from the **Volume** drop-down list. Then click the **Browse** button to select the folder path. You can create a share name, e.g. image.

Volume:	G:	
Folder Path:	G:/Guitar	Browse
Share Name:	music	

- 4. Select the checkboxes in Figure 5-50.according to your needs.
- > Enable Authentication If this checkbox is selected, then the folder sharing needs authentication.
- > Write Access If this checkbox is selected, then the sharing folder is allowed write access.
- > Enable Media Sharing Select this checkbox to enable media sharing.
- 5. Click **OK** to complete the settings.

5.7.3 Print Server

Please refer to Section <u>4.6.2 Print Server</u>.

5.8 Firewall

🔒 Firewall
Basic
Local Log
Remote Log

Figure 5-53 The Firewall menu

There are three submenus under the Security menu: **Basic, Local Log**, and **Remote Log**. Click any of them, and you will be able to configure the corresponding functions.

5.8.1 Basic

Choose menu "Advanced → Firewall → Basic", and you can configure the basic firewall function.

Firewall		
Firewall Protection:	Low	•
Block Fragmented IP Packets	s: 🗌 Enable	
Port Scan Detection:	Enable	
IP Flood Detection:	Enable	
Allowed Services		
No Services Are Restricted		

Figure 5-54

Firewall:

Firewall Protection - You can select **Off, Low**, **Medium** or **High** which you would like.

Click the **Save** button to save your settings.

5.8.2 Local Log

Choose menu "Advanced \rightarrow Firewall \rightarrow Local Log", and then you can configure the function in the screen as shown in Figure 5-53.

Local Log					
Contact Email Address:					
SMTP Server Name:					
SMTP User Name:					
SMTP Password:					
E-mail Alerts:	🗌 Enabl	e			
				Save	
Description	Count	Last Occurence	Target	Source	
Email Log Clear Log					

Figure 5-55

5.8.3 Remote Log

Choose menu "Advanced \rightarrow Firewall \rightarrow Remote Log", and then you can configure the function in the screen as shown in Figure 5-532.

Log Events	
Permitted Connections:	Enable
Blocked Connections:	Enable
Known Internet Attacks:	Enable
Configuration Events:	Enable
Syslog Server	
Server Address:	0.0.0.0
	Save

Figure 5-56

5.9 System Tools



Choose menu "Advanced→System Tools", you will see eight submenus under the System Tools menu: System Information, Device Information, Connection Status, Diagnostic, Time Zone, Backup & Restore, Administrator and Event Log. Click any of them, and you will be able to configure the corresponding function. The detailed explanations for each submenu are provided below.

5.9.1 System Information

Choose menu "Advanced \rightarrow System Tools \rightarrow Diagnostic", you can see the current status information about the modem router.

0 days 00h:03m:31s
Denied
,

Figure 5-57

5.9.2 Device Information

Choose menu "Advanced \rightarrow System Tools \rightarrow Device Information", you can see the current information about the modem router.

vice Information	
Standard Specification Compliant	DOCSIS 3.0
Hardware Version	V1.1
Software Version	v1.0.1 Build 20141120 Rel37466.n
Cable Modem MAC Address	e8:94:f6:de:ad:01
Cable Modem Serial Numbern	dead01
CM certificate	Not Installed

Figure 5-58

5.9.3 Connection Status

Choose menu "Advanced \rightarrow System Tools \rightarrow Device Information", you can see the current connection status about the modem router.

Status	Comment
753000000 Hz	In Progress
In Progress	Not Synchronized
In Progress	Unknown
In Progress	In Progress
Disabled	Disabled
	Status 753000000 Hz In Progress In Progress In Progress Disabled

Downstream Bonded Channels

Channel	Status	Modulation	Channel ID	Frequency	Power	SNR
1	Not Locked	unknown	0	729000000 Hz	-16.9 dBmV	0.0 dB
2	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
3	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
4	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
5	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
6	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
7	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
8	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
9	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
10	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
11	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
12	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB
13	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB

Figure 5-59

5.9.4 Diagnostic

Choose menu "Advanced \rightarrow System Tools \rightarrow Diagnostic", you can test the connectivity of the Internet on the following screen.

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Diagnostics						
Diagnostic tool:	Ping 🔻					
IP Address:	192.168.1.1					
Ping Packet Size:	64	bytes				
Ping Count:	3					
Ping Interval:	1000	ms				
Start Test Abort Test Clear Result						
Waiting for input						

Figure 5-60

Click **Start Test** to check the connectivity of the Internet. The page will display the result of diagnosis.

Note:

Only one user can use the diagnostic tools at one time.

5.9.5 Time Zone

Choose menu "Advanced→System Tools→Time Settings", you can configure the time settings on the following screen.

Time Settings	
Enable SNTP:	
Current Time:	Thu Jan 01 00:21:05 1970
System Start Time:	Thu Jan 01 00:00:00 1970
Time Server 1:	clock.via.net
Time Server 2:	ntp.nasa.gov
Time Server 3:	tick.ucla.edu
Time Zone:	(GMT) Greenwich Mean Time: Dublin,
	Save



Time Settings:

- > **Time Zone -** Select your local time zone from the pull down list.
- Time Server 1 / Time Server 2 / Time Server 3- Enter the address or domain of the Server 1 or Server 2, and then the modem router will get the time from the Server preferentially. In addition, the modem router built-in some common Servers, so it can get time automatically once it connects the Internet.

Note:

- 1. This setting will be used for some time-based functions such as firewall. You must specify your time zone once you login to the router successfully; otherwise, these functions will not take effect.
- 2. The time will be lost if the router is turned off.
- 3. The router will automatically obtain GMT from the Internet if it is configured accordingly.
- 4. The Daylight Saving will take effect one minute after the configurations are completed.

5.9.6 Backup & Restore

Choose menu "Advanced \rightarrow System Tools \rightarrow Backup & Restore", and then you can save the current configuration of the modem router as a backup file and restore the configuration via a backup file as shown in the following figure.

Backup		
Save a copy of current settings.		
		Backup
Restore		
Restore saved settings from a file.		
Configure File Path	Browse	
		Restore
RESET		
		Reset

Figure 5-62

Backup:

Click the **Backup** button to save all configuration settings as a backup file in your local computer.

Restore:

To restore the modem router's configuration, follow these instructions.

- Click the **Browse** button to find the configuration file which you want to restore.
- Click the **Restore** button to restore the configuration with the file whose path is the one you have input or selected in the blank.

Reset:

Click the **Reset** button to reset all configuration settings to their default values.

Note:

- 1. The current configuration will be covered with the uploading configuration file. Wrong process will lead the device unmanaged. The restoring process lasts for 20 seconds and the modem router will restart automatically then. Keep the power of the modem router on during the process, in case of any damage.
- 2. All changed settings will be lost when defaults are restored.

5.9.7 Administrator

Choose menu "Advanced→System Tools→Administration", you will see the following screen.

Account Management Old Password: New Password:			
Confirm New Password: Remote Config Manag	gement		Save
Remote Config Managemen	t: 🗌 Enable		Save
WAN Blocking			
WAN Blocking:	🗹 Enable		Save

Figure 5-63

Account Management:

Here you can set the account user information about **Old Password**, **New Password and Confirm Password**.

It is strongly recommended that you should change the factory default user name and password of the router, because all users who try to access the router's Web-based utility or Quick Setup will be prompted for the router's default user name and password.

Note:

Enter the new Password twice to confirm it. The level of the new password's security will be shown on the screen as **Low**, **Middle** or **High**.

Click the **Save** button save the settings.

Remote Management:

Remote Management – Check the **Enable** to enable the remote management.

P Note:

To access the router, you should type your router's WAN IP address into your browser's address (in IE) or Location (in Navigator) box, followed by a colon and the custom port number. For example, if your router's WAN address is 202.96.12.8, and the port number used is 8080, please enter http://202.96.12.8:8080 in your browser. Later, you may be asked for

the router's password. After successfully entering the username and password, you will be able to access the router's web-based utility.

5.9.8 Event Log

Choose menu "Advanced \rightarrow System Tools \rightarrow Event Log", and then you can view and clear the logs of the modem router.

System Log)	
Time	Priority	Description
Time Not Est ablished	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timi ng;;CM-MAC=e8:94:f6:de:ad:01;CMTS-MAC=00:00:00:00
		Clear Log

Figure 5-64

Appendix A: Specifications

HARDWARE	FEATURES

Interface	1 F-Connector, female 75 Ω 4 10/100/1000Mbps RJ45 LAN Ports 2 USB 2.0 Ports	
Button	1 Power On/Off Button 1 Wi-Fi On/Off Button 1 WPS Button 1 Reset Button	
External Power Supply	12VDC/3.5A	
IEEE Standards	IEEE 802.3, 802.3u	
DOCSIS Standards	DOCSIS 3.0 DOCSIS 2.0 DOCSIS 1.1 DOCSIS 1.0	
Dimensions (W x D x H)	2.5× 7.7× 9.7 in. (62.5× 195× 246 mm)	
Antenna Type	Omni directional, Internal	
Antenna Gain	3×5 dBi for 2.4GHz and 5GHz	
DOCSIS Downstream		
Channel Binding	Up to 16	
Modulation	64 /256 / 1024 QAM	
Maximum PHY Rate	DOCSIS Up to 680 Mbps	
Bandwidth	DOCSIS 96 MHz(16 channels) / 6MHz (single channel)	
Frequency Range	108 to 1002 MHz (edge to edge)	

HARDWARE FEATURES		
Frequency Plan	DOCSIS	Annex B
Symbol Rate	DOCSIS	64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s
Operating Level Range	-15 to 15 dBr	nV (DOCSIS)
Security	DOCSIS 3.0	Security (BPI+, EAE, SSD)
DOCSIS UPSTREAM		
Channel Binding	Up to 4	
Modulation	QPSK and 8,	16, 32, 64, 128, 256 QAM
Maximum PHY Rate	Up to 30Mbp bonding both	os for Single Channel and 4p to 120 Mbps for 4 channel for DOCSIS
Channel Bandwidth	200 kHz, 400	kHz, 800 kHz, 1.6 MHz,3.2 MHz, 6.4 MHz
Frequency Range	DOCSIS	5-42 MHz (edge to edge),
Symbol Rate	160, 320, 640), 1280, 2560, 5120 ksym/s
	TDMA	Pmin to +57 dBmV (32 QAM, 64 QAM) Pmin to +58 dBmV (8 QAM, 16 QAM) Pmin to +61 dBmV (QPSK)
	Note: TDMA channels and	max output power reduced 3dB when transmitting two 6dB when transmitting 3 or 4 channels
Level range	S-CDMA	Pmin to +56 dBmV (all modulations) Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate
	Note: S-CDM channels	1A max output reduced 3dB when transmitting 2 or more

WIRELESS FEATURES

WIRELESS FEATURES	
Wireless Standards	IEEE 802.11ac/n/a 5GHz IEEE 802.11b/g/n 2.4GHz
Wireless Speeds	5GHz: Up to 1300Mbps 2.4GHz: Up to 450Mbps
Frequency	2.4GHz and 5GHz
EIRP	<20dBm(EIRP)
Wireless Functions	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
Wireless Security	64/128-bit WEP,WPA / WPA2,WPA-PSK/ WPA2-PSK encryption, Wireless MAC Filtering
Guest Network	2.4GHz guest network × 1 5GHz guest network × 1
Wireless Schedule	Support 2.4GHz and 5GHz Wireless Schedule
WPS	Support PIN and Push button

SOFTWARE FEATURES	
WAN Connection Type	Dynamic IP、Static IP、L2TP(Dynamic)、L2TP(Static)
DHCP	Server, Client, DHCP Client List,
Port Forwarding	Virtual Server, Port Triggering, DMZ, ALGs
USB Sharing	Support Samba(Storage)/FTP Server/Media Server/Printer Server
Dynamic DNS	DynDns, NO-IP
IPv6	IPv6 and IPv4 dual stack
Security	NAT Firewall, SPI Firewall, Access Control, IP and MAC Address Binding, Denial of Service(DoS), SYN Flooding, Ping of Death MAC / IP / Port/ URL Filtering, Baseline Encryption (BPI)/ BPI+/ EAE/ SSD

SOFTWARE FEATURES	
Management	Web Based Configuration(HTTP), Command Line Interface; Remote management, SSL for TR-069, SNMP v1/v2c/v3; Diagnostic Tools
Advanced Features	Parental Control, Network Address Translation (NAT); RIP v1/v2(optional); DNS, DNS Relay, IGMP V1/V2/V3, UPnP

OTHERS	
Certification	FCC, RoHS, CableLabs, UL
Package Contents	Archer CR700 RJ-45 Ethernet Cable Quick Installation Guide Power Adapter
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™, Windows 7, Windows 8, MAC® OS, NetWare®, UNIX® or Linux.
Environment	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing

Appendix B: Technical Support

Technical	Support
For more troubleshooting help, go to:	
http://www.tp-link.com/on/support/fag	
To download the latest Eirmware, Driver, Utility and	Llear Guida, go to:
http://www.tp.link.com/on/oupport/download	Oser Guide, go to.
The start and start and support download	vusing the following details:
For all other technical support, please contact us b	y using the following details:
<u>Global</u>	Singapore
Tel: +86 755 2650 4400	Tel: +65 6284 0493
Fee: Depending on rate of different carriers, IDD.	Fee: Depending on rate of different carriers.
E-mail: support@tp-link.com	E-mail: support.sg@tp-link.com
Service time: 24hrs, 7 days a week	Service time: 24hrs, 7 days a week
<u>USA/Canada</u>	<u>UK</u>
Toll Free: +1 866 225 8139	Tel: +44 (0) 845 147 0017
E-mail: support.usa@tp-link.com (USA)	Fee: Landline: 1p-10.5p/min, depending on the time
support.ca@tp-link.com (Canada)	of day. Mobile: 15p-40p/min, depending on your
Service time: 24hrs, 7 days a week	E mail: aupport uk@ta liak aom
<u>Turkey</u>	Sonvice time: 24bra 7 days a week
Tel: 0850 7244 488 (Turkish Service)	Italy
Fee: Depending on rate of different carriers.	Tal: +30,023,051,0020
E-mail: support.tr@tp-link.com	Foo: Doponding on rate of different carriers
Service time: 09:00 to 21:00, 7 days a week	Fee. Depending on rate of different carriers.
<u>Ukraine</u>	E-mail. support.it@ip-ink.com
Tel: 0800 505 508	14.00 to 18.00
Fee: Free for Landline; Mobile: Depending on rate	Malavsia
of different carriers	Toll Free: 1300 88 875 465
E-mail: support.ua@tp-link.com	Email: support my@tp-link.com
Service time: Monday to Friday, 10:00 to 22:00	Service time: 24brs 7 days a week
Brazil	Poland
Toll Free: 0800 608 9799 (Portuguese Service)	Tel: +48 (0) 801 080 618
E-mail: suporte.br@tp-link.com	+48223606363 (if calls from mobile phone)
Service time: Monday to Friday, 09:00 to 20:00;	Fee: Depending on rate of different carriers
Saturday, 09.00 to 15.00	E-mail: support pl@tp-link.com
Tol: (162) 021 6286 1026	Service time: Monday to Friday 09:00 to 17:00
Tel. (+62) 021 6366 1936	GMT+1 or GMT+2 (DST)
Fee: Depending on rate of different carriers.	France
E-mail: support.io@tp-link.com	Tel: 0820 800 860 (French service)
Service time: Monday to Friday, 09:00 to 18:00,	Fee: 0.118 EUR/min from France
*Except public nolidays	Email: support.fr@tp-link.com
	Service time: Monday to Friday, 09:00 to 18:00
Tel: NZ 0800 87 5465 (Toll Free)	*Except French Bank holidays
AU 1300 87 5465 (Depending on 1300 policy.)	Switzerland
E-mail: support.au@tp-link.com (Australia)	Tel: +41 (0) 848 800 998 (German Service)
support.nz@tp-link.com (New Zealand)	Fee: 4-8 Rp/min, depending on rate of different
Service time: 24hrs, 7 days a week	time.
<u>Germany/Austria</u>	E-mail: support.ch@tp-link.com
I el: +49 1805 875 465 (German Service)	Service time: Monday to Friday, 09:00 to 12:30 and
+49 1805 TPLINK	13:30 to 18:00. GMT+1 or GMT+2 (DST)
+43 820 820 360	Russian Federation
Fee: Landline from Germany: 0.14EUR/min.	Tel: 8 (499) 754 5560 (Moscow NO.)
Landline from Austria: 0.20EUR/min.	8 (800) 250 5560 (Toll-free within RF)
E-mail: support.de@tp-link.com	E-mail: support.ru@tp-link.com
Service time: Monday to Friday, 09:00 to 12:30 and 13:30 to 18:00. GMT+1 or GMT+2 (DST in	Service time: From 09:00 to 21:00 (Moscow time) *Except weekends and holidays in RF